



STATUTORY INSTRUMENTS.

S.I. No. 549 of 2009

TAXES CONSOLIDATION ACT 1997 (ACCELERATED CAPITAL
ALLOWANCES FOR ENERGY EFFICIENT EQUIPMENT)
(AMENDMENT) (No. 3) ORDER 2009

(Prn. A9/1891)

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TAXES CONSOLIDATION ACT 1997 (ACCELERATED CAPITAL
ALLOWANCES FOR ENERGY EFFICIENT EQUIPMENT)
(AMENDMENT) (No. 3) ORDER 2009

I, EAMON RYAN, Minister for Communications, Energy and Natural Resources, in exercise of the powers conferred on me by section 285A (inserted by section 46 of the Finance Act 2008 (No. 3 of 2008)) of the Taxes Consolidation Act 1997 (No. 39 of 1997), with the approval of, and after consultation with, the Minister for Finance, hereby order as follows:

1. (1) This Order may be cited as the Taxes Consolidation Act 1997 (Accelerated Capital Allowances for Energy Efficient Equipment) (Amendment) (No. 3) Order 2009.

(2) The collective citation, “the Taxes Consolidation Act 1997 (Accelerated Capital Allowances for Energy Efficient Equipment) Orders 2008 and 2009”, includes this Order.

2. In this Order “Principal Order” means the Taxes Consolidation Act 1997 (Accelerated Capital Allowances for Energy Efficient Equipment) Order 2008 (S.I. No. 399 of 2008).

3. Schedule 1 of the Principal Order is amended by substituting the following for Part 6 of that Schedule:

“Part 6

Category: Information and Communications Technology (ICT)

Technology: Enterprise Servers

An Enterprise Server is defined as a computer that is especially designed to provide services and manage networked resources for client devices in a highly energy efficient manner. It is designed to respond to requests and is primarily accessed via network connections, and not through direct user input devices. Enterprise servers can be supplied with Virtualisation solutions installed to further increase server energy efficiency.

Enterprise Server Eligibility Criteria:

In order to be included on the ACA Specified List, an Enterprise Server must meet all of the requirements set out below.

Note: *Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking*

*Notice of the making of this Statutory Instrument was published in
“Iris Oifigiúil” of 5th January, 2010.*

process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.

No.	Condition
1.	Marketed and sold as an Enterprise Server.
2.	Designed for, and listed as, supporting Enterprise Server operating Systems and/or Hypervisors, and targeted to run user-installed enterprise applications.
3.	Be capable of remote power-down.
4.	Meet the relevant minimum performance to power ratios in Table 1.
5.	If a virtualisation solution is installed it must be capable of virtualising from a physical server to a virtual system ¹ , automatically consolidating workloads and powering down unused equipment, and provisioning dynamically. The host physical server must be capable of accommodating a minimum of five virtual servers.

Table 1: Minimum server performance to power ratios

Server application	Minimum Ratio*
Performance at low utilisation of less than or equal to 30%.	> 700
Performance at moderate utilisation of greater than 30%, but less than 70%.	> 1650
Performance at high utilisation of greater than or equal to 70%.	> 2150

Note: Only the ratio calculation method detailed below can be used

***Performance to Power Ratio:**

The ratio is based on the Standard Performance Evaluation Corporation (SPEC) industry standard benchmark performance test, SPECpower—ssj2008. Under this test the energy use of a server is tracked (plug power) while the server performs a defined sequence of operational tasks.

Calculation method — Performance to power ratio:

The metric required is calculated using the sum of outputs (Throughput per Watt of power) and power consumed at 10% utilisation intervals as shown overleaf:

- Performance to power ratio measured at low utilisation

$$= \Sigma \text{ssj — ops}(0\%+10\%+20\%+30\%) / \Sigma \text{power } (0\%+10\%+20\%+30\%)$$
- Performance to power ratio measured at moderate utilisation

$$= \Sigma \text{ssj — ops}(40\%+50\%+60\%) / \Sigma \text{power } (40\%+50\%+60\%)$$
- Performance to power ratio measured at high utilisation

$$= \Sigma \text{ssj — ops}(70\%+80\%+90\%+100\%) / \Sigma \text{power } (70+80\%+90\%+100\%)$$

¹Physical to Virtual is often termed as P2V.

Where:

- $ssj - ops = \text{Workload at the specified utilisation level.}$
- $\text{Power} = \text{Energy consumed in Watts at specified utilisation level.}$

4. Schedule 1 of the Principal Order is amended by substituting the following for Part 7 of that Schedule:

“Part 7**Category: Information and Communications Technology (ICT)****Technology: Enterprise Storage**

Enterprise Storage equipment is defined as a storage device specifically designed to achieve very high levels of energy efficiency. A storage device is defined as an array of disks which consist of fast access iSCSI/Fibrechannel disks and/or larger and slower SATA disks.

Enterprise Storage equipment is considered to include one or both of the following:

Solid State Drive Storage

A Solid State Drive storage unit is typically made up of solid-state electronics rather than electromechanical devices.

Disk Drive Storage

A Disk Drive storage unit is where data is recorded on planar, round and rotating surfaces.

Eligibility Criteria Overview:

In order to be included on the ACA Specified List, the specific Enterprise Storage equipment must meet all of the relevant requirements set out below.

***Note:** Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

General Eligibility Criteria

(Applicable to all Enterprise Storage Types)

No.	Condition
1.	Be supplied with management software capable of two of the following: <ul style="list-style-type: none"> A. Data de-duplication, data compression or single instancing B. Thin/Virtual Provisioning C. Array Virtualisation

No.	Condition
2.	Must form part of one of the following enterprise storage solutions: A. Storage Area Network (SAN) B. Direct Attached Storage (DAS) C. Network Attached Storage (NAS)

Solid State Drive Storage Eligibility Criteria

(To be met in addition to the general eligibility criteria)

No.	Condition
3.	Must be designed to form part of an enterprise storage solution and have a minimum storage capacity of 120 Gb.

Disk Drive Storage Eligibility Criteria

(To be met in addition to the general eligibility criteria)

No.	Condition
4.	Be capable of intelligent power-down, and drive spin-down or slow spin (MAID 2/IPM).
5.	Have a disk tiering strategy capable of supporting storage media with multiple power / capacity points with a factor of at least 2X between the slowest and fastest.

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5. Schedule 1 of the Principal Order is amended by substituting the following for Part 13 of that Schedule:

“Part 13

Category: Heating and Electricity Provision

Technology: Co-generation

Co-generation is defined as highly energy efficient equipment which can simultaneously generate a combination of heat, cooling energy and usable electrical power in a single thermodynamic process and which is intended primarily for on-site use.

Co-generation equipment is considered to include the following:

Combined Heat and Power

Combined Heat and Power (CHP) is the simultaneous generation of heat and power in a single process.

Tri-generation

Tri-generation is the simultaneous generation of heat, cooling and power in a single process whereby the cooling effect is obtained through the CHP generated heat by means of an absorption chiller.

Eligibility Criteria Overview:

In order to be included on the ACA Specified List, the specific Co-generation equipment must meet all of the relevant requirements set out below.

***Note:** Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

General Co-generation Eligibility Criteria
(Applicable to all Co-generation equipment)

No.	Condition
1.	All equipment and/or components must be CE marked as required by the specific EU directive(s).
2.	Appropriate operating and maintenance manuals must be available for the end-user as part of the main contract of sale in order to optimise the achievement of any potential efficiency improvements.

CHP specific Eligibility Criteria:

(To be met in addition to the general eligibility criteria)

No.	Condition
3.	The CHP unit must be a packaged unit with the power generation section and heat recovery section contained within a single enclosure, and should consist of a single prime mover.
4.	Units must have a minimum overall efficiency (thermal + electricity) greater than or equal to 80% .
5.	The unit must have installed software to record levels of electricity and heat generated over a running period.
6.	The CHP Unit must include one main heat output system i.e. a system recovering heat from the prime mover and the exhaust gasses, and must have no inbuilt facility to dump heat.

Tri-generation specific Eligibility Criteria:

(To be met in addition to the general eligibility criteria)

No.	Condition
7.	The heat & power element of the Trigeneration system must comply with the eligibility criteria for CHP units.
8.	The Absorption chiller must use the CHP heat source as its primary energy input. (The chiller should be an “indirect fired” Absorption chiller).
9.	The Absorption chiller must have a minimum COP of 0.6
10.	The units must have installed software to record levels of cooling achieved.

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6. Schedule 1 of the Principal Order is amended by substituting the following for Part 14 of that Schedule:

“Part 14

Category: Heating and Electricity Provision

Technology: Wind Turbines

A wind turbine is defined as advanced equipment which converts the wind’s kinetic energy into rotary mechanical energy, which is then used for electricity generation primarily for on-site use.

A Wind Turbine must always contain the turbine and supporting structure, the primary element, but may also comprise of a package, containing ancillary equipment, namely:

- Electrical management and/or control systems
- Energy storage system

provided these meet the relevant conditions listed below.

Wind Turbine Eligibility Criteria:

In order to be included on the ACA Specified list, a Wind Turbine must meet all of the relevant requirements listed below.

***Note:** Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	Must have a rating of greater than 5kW
2.	The wind turbine must comply with, and have been tested according to, the appropriate European standard(s), or scientific equivalent, applicable to its size and type.
3.	Where included, inverters must be at least 90% efficient and comply with the appropriate European standard(s), or scientific equivalent, applicable to the connection interface type.
4.	All equipment and/or components must be CE marked as required by the specific EU directive(s).
5.	Appropriate operating and maintenance manuals must be available for the end-user as part of the main contract of sale in order to optimise the achievement of any potential efficiency improvements.

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7. Schedule 1 of the Principal Order is amended by substituting the following for Part 18 of that Schedule:

“Part 18

Category: Heating and Electricity Provision

Technology: Photovoltaic Systems

A Photovoltaic (PV) System is defined as an advanced system which efficiently converts solar energy into electrical energy primarily for on-site use.

A Photovoltaic System must always contain one or more photovoltaic modules and supporting structure, the primary element, but may also comprise of a package, containing ancillary equipment, namely:

- Tracker and/or Tracking mechanism
- Solar-concentrator
- Energy storage system
- Electrical management and/or control systems

provided these meet the relevant conditions listed below.

Photovoltaic Systems Eligibility Criteria:

In order to be included on the ACA Specified List, a Photovoltaic System must meet all of the relevant requirements set out below.

***Note:** Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

No.	Condition
1.	Photovoltaic modules must comply with the relevant standards (design qualification and type approval), or scientific equivalent, and outputs specified in Table 1. (Photovoltaic module output per m ² must be quoted in terms of Standard Test Conditions: Irradiance of 1000W/m ² ; spectrum AM 1.5G; cell temperature 25°C)
2.	Where included, inverters must be at least 90% efficient and comply with the appropriate European standard(s), or scientific equivalent applicable to the connection interface type.
3.	All equipment and/or components must be CE marked as required by the specific EU directive(s).
4.	Appropriate operating and maintenance manuals must be available for the end-user as part of the main contract of sale in order to optimise the achievement of any potential efficiency improvements.

Table 1 — Minimum photovoltaic module outputs

Type	Standard	Minimum Peak Watt (W _p) output per m ²
Crystalline silicon	EN 61215	110
Thin-film	EN 61646	30

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8. Schedule 1 of the Principal Order is amended by substituting the following for Part 20 of that Schedule:

“Part 20

Category: Heating and Electricity Provision

Technology: Condensate Recovery Systems Eligibility Criteria

Condensate Recovery Systems are defined as equipment which is specifically designed to efficiently recover condensate from steam installations in order to maximise their overall energy efficiency.

Condensate Recovery Systems equipment is considered to include the following:

Steam Traps

Steam traps are devices which allow the discharge of condensate without allowing the release of steam from a steam & condensate installation.

Deaeration Tanks

Deaeration tanks remove oxygen and other dissolved gases from steam boiler feedwater to reduce corrosion and improve efficiency in the steam system.

Eligibility Criteria Overview

In order to be included on the ACA Specified List, the specific Condensate Recovery Systems equipment must meet all of the relevant requirements set out below.

Note: *Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

Steam Traps specific Eligibility Criteria:

No.	Condition
1.	<p>Steam trap must be one of those defined in EN 26704 “Classification of automatic steam traps”, or scientific equivalent.</p> <p>And</p> <p>Steam trap must be designed and manufactured in accordance with IS/EN 26948 “Production and performance characteristic tests for automatic steam traps”, or scientific equivalent.</p>
2.	<p>Must include Failure Monitoring:</p> <ul style="list-style-type: none"> • Failure sensor located in the steam trap or in suitable device adjacent to it; • Output from sensor either to an intermediate device which communicates with a control system or directly to control system • Output to BMS, DCS, Delta V or other equivalent control system.

Deaeration Tanks specific Eligibility Criteria:

No.	Condition
3.	Equipment must be capable of achieving a minimum dissolved oxygen concentration of 5 ppb by weight or less.
4.	Equipment must be rated for total removal of dissolved carbon dioxide.
5.	Low vent losses must be less than or equal to 22.4 kg/h of steam/air mixture per 1 000 kg/h of deaerator capacity.
6.	Allow rapid load changes of boiler for which designed — minimum of 5% of boiler rating in 30 seconds.
7.	All equipment and/or components must be CE marked as required by the specific EU directive(s).

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9. Schedule 1 of the Principal Order is amended by substituting the following for Part 28 of that Schedule:

“Part 28**Category: Electric and Alternative Fuel Vehicles****Technology: Electric Vehicles and Associated Charging Equipment**

An Electric Vehicle is defined as a vehicle covered under the EU vehicle categories set out in Table 1 and powered fully or partially by electricity. Associated Charging Equipment is accordingly defined as the equipment required to recharge the energy store of a full or partial electric vehicle.

Electric Vehicles and Associated Charging Equipment is considered to include the following:

Battery Electric Vehicle

A Battery Electric Vehicle (BEV) is powered solely by electricity stored in batteries within the vehicle which need to be recharged by plugging into recharging points

Hybrid Electric Vehicle

A Hybrid Electric Vehicle (HEV) is a vehicle that derives its power from a combination of electricity stored in a battery and an internal combustion engine.

Plug-in Hybrid Electric Vehicles

Plug-in Hybrid Electric Vehicles (PHEV) operate similarly to conventional hybrid electric vehicles but the battery can also be recharged by plugging into recharging points.

Electric Vehicle Charging Equipment

Electric Vehicle Charging Equipment is the ancillary equipment necessary to recharge electric vehicles from an electricity point.

Eligibility Criteria Overview:

In order to be included on the ACA Specified List, the specific Electric Vehicles or Associated Charging Equipment must meet all of the relevant requirements set out below.

***Note:** Supporting documentation that clearly demonstrates ACA compliance according to the conditions below will be required as part of the ACA checking process. Detailed information on the types of documents accepted can be found in the separate Supporting Documentation guidelines.*

Battery Electric Vehicle specific Eligibility Criteria:

No.	Condition
1.	The vehicle must have an electric motor size >1kW.
2.	The vehicle must achieve a range of 60km before recharging.

Hybrid and Plug-in Hybrid Electric Vehicles specific Eligibility Criteria:

No.	Condition
3.	The vehicle must have an electric motor size >1kW.
4.	Vehicle category M1 must achieve a CO ² emission of less than 120g/km (as determined by S.I. No. 443 of 2000).
5.	Light commercial vehicles from vehicle categories other than M ₁ and up to 3,500kg must achieve a CO ² emission of less than 175g/km (as determined by S.I. No. 443 of 2000).

Electric Vehicle Charging Equipment specific Eligibility Criteria:

No.	Condition
6.	The equipment must comply with the appropriate European standard(s), or scientific equivalent, applicable to the type of charging equipment.

Table 1: Definition of EU vehicle categories according to Directives 2002/24/EC and 2007/46/EC

Category L — Mopeds, Motorcycles, Motor Tricycles and Quadricycles

Category	Description
L1e	Two-wheel vehicles with a maximum design speed of not more than 45 km/h and characterised by an engine whose: <ul style="list-style-type: none"> • maximum continuous rated power is no more than 4 kW in the case of an electric motor
L2e	Three-wheel vehicles with a maximum design speed of not more than 45 km/h and characterised by an engine whose: <ul style="list-style-type: none"> • maximum continuous rated power does not exceed 4 kW in the case of an electric motor
L3e	Two-wheel vehicles without a sidecar fitted with an engine having a cylinder capacity of more than 50 cm ³ if of the internal combustion type and/or having a maximum design speed of more than 45 km/h
L4e	Two-wheel vehicles with a sidecar fitted with an engine having a cylinder capacity of more than 50 cm ³ if of the internal combustion type and/or having a maximum design speed of more than 45 km/h
L5e	Vehicles with three symmetrically arranged wheels fitted with an engine having a cylinder capacity of more than 50 cm ³ if of the internal combustion type and/or a maximum design speed of more than 45 km/h
L6e	Quadricycles whose unladen mass is not more than 350 kg, not including the mass of the batteries in case of electric vehicles, whose maximum design speed is not more than 45 km/h, and <ul style="list-style-type: none"> • whose maximum continuous rated power does not exceed 4 kW in the case of an electric motor. These vehicles shall fulfil the technical requirements applicable to three-wheel mopeds of category L2e unless specified differently.
L7e	Quadricycles other than those referred to in category L6e, whose unladen mass is not more than 400 kg (550 kg for vehicles intended for carrying goods), not including the mass of batteries in the case of electric vehicles, and whose maximum net engine power does not exceed 15 kW. These vehicles shall be considered to be motor tricycles and shall fulfil the technical requirements applicable to motor tricycles of category L5e unless specified differently.

Category M — Motor vehicles having at least four wheels and for the carriage of passengers

Category	Description
M1	Vehicles for the carriage of passengers and comprising not more than eight seats in addition to the driver's seat
M2	Vehicles for the carriage of passengers, comprising more than eight seats in addition to the driver's seat, and having a maximum mass not exceeding 5 tonnes
M3	Vehicles for the carriage of passengers, comprising more than eight seats in addition to the driver's seat, and having a maximum mass exceeding 5 tonnes

Category N — Power-driven vehicles having at least four wheels and for the carriage of goods

Category	Description
N1	Vehicles for the carriage of goods and having a maximum mass not exceeding 3.5 tonnes
N2	Vehicles for the carriage of goods and having a maximum mass exceeding 3.5 tonnes but not exceeding 12 tonnes
N3	Vehicles for the carriage of goods and having a maximum mass exceeding 12 tonnes

10. Part 1 of Schedule 2 to the Principal Order is amended by inserting the following:

Aca Code	Product Code	Product Name	Short Description	Manufacturer
MOT28680	LSES 80L-2	LSES 80L-2	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28681	LSES 90SL-2	LSES 90SL-2	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28682	LSES 90L-2	LSES 90L-2	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28683	LSES 100L-2	LSES 100L-2	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28684	LSES 112 MG-2	LSES 112 MG-2	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28685	LSES 132S-2	LSES 132S-2	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28686	LSES 132SM-2	LSES 132SM-2	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28687	LSES 160MP-2	LSES 160MP-2	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28688	LSES 160LR-2	LSES 160LR-2	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28689	LSES 160L-2	LSES 160L-2	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28690	LSES 180MT-2	LSES 180MT-2	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28691	LSES 200L-2-30	LSES 200L-2-30	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28692	LSES 200L-2-37	LSES 200L-2-37	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28693	LSES 225MR-2	LSES 225MR-2	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28694	LSES 250ME-2	LSES 250ME-2	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28695	LSES 280SC-2	LSES 280SC-2	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28696	LSES 280MC-2	LSES 280MC-2	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28697	LSES 90SL-4	LSES 90SL-4	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28698	LSES 90LU-4	LSES 90LU-4	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28699	LSES 100LR-4	LSES 100LR-4	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28700	LSES 100LG-4	LSES 100LG-4	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28701	LSES 112MU-4	LSES 112MU-4	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28702	LSES 132SM-4	LSES 132SM-4	ALUMINIUM FRAME	Leroy Somer Ltd

Aca Code	Product Code	Product Name	Short Description	Manufacturer
MOT28703	LSES 132M-4	LSES 132M-4	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28704	LSES 160L-4	LSES 160L-4	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28705	LSES 180MT-4	LSES 180MT-4	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28706	LSES 180LU-4	LSES 180LU-4	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28707	LSES 200L-4	LSES 200L-4	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28708	LSES 225SR-4	LSES 225SR-4	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28709	LSES 225MG-4	LSES 225MG-4	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28710	LSES 250ME-4	LSES 250ME-4	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28711	LSES 280SD-4	LSES 280SD-4	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28712	LSES 280MK-4	LSES 280MK-4	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28713	LSES 315 SP-4	LSES 315 SP-4	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28714	LSES 315MR-4-132	LSES 315MR-4-132	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28715	LSES 315MR-4-160	LSES 315MR-4-160	ALUMINIUM FRAME	Leroy Somer Ltd
MOT28716	LSES 315MR-4-200	LSES 315MR-4-200	ALUMINIUM FRAME	Leroy Somer Ltd

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11. Part 2 of Schedule 2 to the Principal Order is amended by inserting the following:

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Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD26580	ACS1043-A1-A	ACS1043-A1-A-315	Medium Voltage Drive	ABB Ltd
VSD27208	ACS1043-A1-B	ACS1043-A1-B-355	Medium Voltage Drives	ABB Ltd
VSD27209	ACS1043-A1-C	ACS1043-A1-C-400	Medium Voltage Drives	ABB Ltd
VSD27210	ACS1043-A1-D	ACS1043-A1-D-450	Medium Voltage Drives	ABB Ltd
VSD27211	ACS1043-A1-E	ACS1043-A1-E-500	Medium Voltage Drives	ABB Ltd
VSD27212	ACS1043-A1-F	ACS1043-A1-F-560	Medium Voltage Drives	ABB Ltd
VSD27213	ACS1043-A2-G	ACS1043-A2-G-630	Medium Voltage Drives	ABB Ltd

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD27214	ACS1043-A2-H	ACS1043-A2-H-710	Medium Voltage Drives	ABB Ltd
VSD27215	ACS1043-A2-J	ACS1043-A2-J-800	Medium Voltage Drives	ABB Ltd
VSD27216	ACS1043-A2-K	ACS1043-A2-K-900	Medium Voltage Drives	ABB Ltd
VSD27217	ACS1043-A2-L	ACS1043-A2-L-1000	Medium Voltage Drives	ABB Ltd
VSD27218	ACS1043-A3-M	ACS1043-A3-M-1120	Medium Voltage Drives	ABB Ltd
VSD27219	ACS1043-A3-N	ACS1043-A3-N-1250	Medium Voltage Drives	ABB Ltd
VSD27220	ACS1043-A3-P	ACS1043-A3-P-1400	Medium Voltage Drives	ABB Ltd
VSD27221	ACS1043-A3-Q	ACS1043-A3-Q-1500	Medium Voltage Drives	ABB Ltd
VSD27222	ACS1044-A1-A	ACS1044-A1-A-300	Medium Voltage Drives	ABB Ltd
VSD27223	ACS1044-A1-B	ACS1044-A1-B-340	Medium Voltage Drives	ABB Ltd
VSD27224	ACS1044-A1-C	ACS1044-A1-C-370	Medium Voltage Drives	ABB Ltd
VSD27225	ACS1044-A1-D	ACS1044-A1-D-450	Medium Voltage Drives	ABB Ltd
VSD27226	ACS1044-A1-E	ACS1044-A1-E-520	Medium Voltage Drives	ABB Ltd
VSD27227	ACS1044-A1-F	ACS1044-A1-F-600	Medium Voltage Drives	ABB Ltd
VSD27228	ACS1044-A1-G	ACS1044-A1-G-670	Medium Voltage Drives	ABB Ltd
VSD27229	ACS1044-A1-H	ACS1044-A1-H-750	Medium Voltage Drives	ABB Ltd
VSD27230	ACS1044-A2-J	ACS1044-A2-J-930	Medium Voltage Drives	ABB Ltd
VSD27231	ACS1044-A2-K	ACS1044-A2-K-1120	Medium Voltage Drives	ABB Ltd
VSD27232	ACS1044-A3-L	ACS1044-A3-L-1300	Medium Voltage Drives	ABB Ltd
VSD27233	ACS1044-A3-M	ACS1044-A3-M-1490	Medium Voltage Drives	ABB Ltd
VSD27234	ACS1044-A3-N	ACS1044-A3-N-1680	Medium Voltage Drives	ABB Ltd
VSD27235	ACS1044-A3-P	ACS1044-A3-P-2010	Medium Voltage Drives	ABB Ltd
VSD27236	ACS1012-A1-A	ACS1012-A1-A-300	Medium Voltage Drives	ABB Ltd
VSD27237	ACS1012-A1-B	ACS1012-A1-B-340	Medium Voltage Drives	ABB Ltd
VSD27238	ACS1012-A1-C	ACS1012-A1-C-370	Medium Voltage Drives	ABB Ltd

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD27239	ACS1012-A1-D	ACS1012-A1-D-450	Medium Voltage Drives	ABB Ltd
VSD27240	ACS1012-A1-E	ACS1012-A1-E-520	Medium Voltage Drives	ABB Ltd
VSD27241	ACS1012-A1-F	ACS1012-A1-F-600	Medium Voltage Drives	ABB Ltd
VSD27242	ACS1012-A1-G	ACS1012-A1-G-670	Medium Voltage Drives	ABB Ltd
VSD27243	ACS1012-A1-H	ACS1012-A1-H-750	Medium Voltage Drives	ABB Ltd
VSD27244	ACS1012-A2-J	ACS1012 —A2-J-930	Medium Voltage Drives	ABB Ltd
VSD27245	ACS1012-A2-K	ACS1012-A2-K-1120	Medium Voltage Drives	ABB Ltd
VSD27246	ACS1012-A3-L	ACS1012-A3-L-1300	Medium Voltage Drives	ABB Ltd
VSD27247	ACS1012-A3-M	ACS1012-A3-M-1490	Medium Voltage Drives	ABB Ltd
VSD27248	ACS1012-A3-N	ACS1012-A3-N-1680	Medium Voltage Drives	ABB Ltd
VSD27249	ACS1013-A1-A	ACS1013-A1-A-300	Medium Voltage Drives	ABB Ltd
VSD27250	ACS1013-A1-B	ACS1013-A1-B-355	Medium Voltage Drives	ABB Ltd
VSD27251	ACS1013-A1-C	ACS1013-A1-C-400	Medium Voltage Drives	ABB Ltd
VSD27252	ACS1013-A1-D	ACS1013-A1-D-450	Medium Voltage Drives	ABB Ltd
VSD27253	ACS1013-A1-E	ACS1013-A1-E-500	Medium Voltage Drives	ABB Ltd
VSD27254	ACS1013-A1-F	ACS1013-A1-F-560	Medium Voltage Drives	ABB Ltd
VSD27255	ACS1013-A1-G	ACS1013-A1-G-630	Medium Voltage Drives	ABB Ltd
VSD27256	ACS1013-A1-H	ACS1013-A1-H-710	Medium Voltage Drives	ABB Ltd
VSD27257	ACS1013-A1-J	ACS1013-A2-J-800	Medium Voltage Drives	ABB Ltd
VSD27258	ACS1013-A2-K	ACS1013-A2-K-900	Medium Voltage Drives	ABB Ltd
VSD27259	ACS1013-A2-L	ACS1013-A2-L-1000	Medium Voltage Drives	ABB Ltd
VSD27260	ACS1013-A2-M	ACS1013-A2-M-1120	Medium Voltage Drives	ABB Ltd
VSD27261	ACS1013-A2-N	ACS1013-A2-N-1250	Medium Voltage Drives	ABB Ltd
VSD27262	ACS1013-A2-P	ACS1013-A2-P-1400	Medium Voltage Drives	ABB Ltd
VSD27263	ACS1013-A2-Q	ACS1013-A3-Q-1600	Medium Voltage Drives	ABB Ltd

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD27264	ACS1013-A3-R	ACS1013-A3-R-1800	Medium Voltage Drives	ABB Ltd
VSD27265	ACS1013-W1-S	ACS1013-W1-S-2000	Medium Voltage Drives	ABB Ltd
VSD27266	ACS1013-W1-T	ACS1013-W1-T-2250	Medium Voltage Drives	ABB Ltd
VSD27267	ACS1013-W1-U	ACS1013-W1-U-2500	Medium Voltage Drives	ABB Ltd
VSD27268	ACS1013-W2-V	ACS1013-W2-V-2800	Medium Voltage Drives	ABB Ltd
VSD27269	ACS1013-W2-W	ACS1013-W2-W-3150	Medium Voltage Drives	ABB Ltd
VSD27270	ACS1013-W2-X	ACS1013-W2-X-3550	Medium Voltage Drives	ABB Ltd
VSD27271	ACS1013-W3-Y	ACS1013-W3-Y-4000	Medium Voltage Drives	ABB Ltd
VSD27272	ACS1013-W3-Z	ACS1013-W3-Z-4500	Medium Voltage Drives	ABB Ltd
VSD27273	ACS1013-W3-1	ACS1013-W3-1-5000	Medium Voltage Drives	ABB Ltd
VSD27274	ACS1014-A1-A	ACS1014-A1-A-300	Medium Voltage Drives	ABB Ltd
VSD27275	ACS1014-A1-B	ACS1014-A1-B-340	Medium Voltage Drives	ABB Ltd
VSD27276	ACS1014-A1-C	ACS1014-A1-C-370	Medium Voltage Drives	ABB Ltd
VSD27277	ACS1014-A1-D	ACS1014-A1-D-450	Medium Voltage Drives	ABB Ltd
VSD27278	ACS1014-A1-E	ACS1014-A1-E-520	Medium Voltage Drives	ABB Ltd
VSD27279	ACS1014-A1-F	ACS1014-A1-F-600	Medium Voltage Drives	ABB Ltd
VSD27280	ACS1014-A1-G	ACS1014-A1-G-670	Medium Voltage Drives	ABB Ltd
VSD27281	ACS1014-A1-H	ACS1014-A1-H-750	Medium Voltage Drives	ABB Ltd
VSD27282	ACS1014-A2-J	ACS1014-A2-J-930	Medium Voltage Drives	ABB Ltd
VSD27283	ACS1014-A2-K	ACS1014-A2-K-1120	Medium Voltage Drives	ABB Ltd
VSD27284	ACS1014-A3-	ACS1014-A3-L-1300	Medium Voltage Drives	ABB Ltd
VSD27285	ACS1014-A3-M	ACS1014-A3-M-1490	Medium Voltage Drives	ABB Ltd
VSD27286	ACS1014-A3-N0	ACS1014-A3-N-1680	Medium Voltage Drives	ABB Ltd
VSD27287	ACS1014-W1-P	ACS1014-W1-P-1860	Medium Voltage Drives	ABB Ltd
VSD27288	ACS1014-W1-Q	ACS1014-W1-Q-2240	Medium Voltage Drives	ABB Ltd

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD27289	ACS1014-W2-R	ACS1014-W2-R-2610	Medium Voltage Drives	ABB Ltd
VSD27290	ACS1014-W2-S	ACS1014-W2-S-2980	Medium Voltage Drives	ABB Ltd
VSD27291	ACS1014-W2-T	ACS1014-W2-T-3360	Medium Voltage Drives	ABB Ltd
VSD27292	ACS1014-W2-U	ACS1014-W2-U-3730	Medium Voltage Drives	ABB Ltd
VSD27293	ACS1014-W3-V	ACS1014-W3-V-4100	Medium Voltage Drives	ABB Ltd
VSD27294	ACS1014-W3-W	ACS1014-W3-W-4470	Medium Voltage Drives	ABB Ltd
VSD27295	ACS1014-W3-X	ACS1014-W3-X-5000	Medium Voltage Drives	ABB Ltd
VSD27296	ACS6105-L12-1a5	ACS6105-L12-1a5-4300	Medium Voltage Drive	ABB Ltd
VSD27297	ACS6107-L12-1a7	ACS6107-L12-1a7-6000	Medium Voltage Drive	ABB Ltd
VSD27298	ACS6109-L12-1a9	ACS6109-L12-1a9-7700	Medium Voltage Drive	ABB Ltd
VSD27299	ACS6114-L12-1a11	ACS6114-L12-1a11-9400	Medium Voltage Drive	ABB Ltd
VSD27300	ACS6114-L12-2a7	ACS6114-L12-2a7-12000	Medium Voltage Drive	ABB Ltd
VSD27301	ACS6209-L12-2a9	ACS6209-L12-2a9-15400	Medium Voltage Drive	ABB Ltd
VSD27302	ACS6214-L12-2a11	ACS6214-L12-2a11-18000	Medium Voltage Drive	ABB Ltd
VSD27303	ACS6107-A06-1a7	ACS6107-A06-1a7-6000	Medium Voltage Drive	ABB Ltd
VSD27304	ACS6109-A06-1a9	ACS6109-A06-1a9-7700	Medium Voltage Drive	ABB Ltd
VSD27305	ACS6109-A06-1a11	ACS6109-A06-1a11-9400	Medium Voltage Drive	ABB Ltd
VSD27306	ACS6207-A12-2a7	ACS6207-A12-2a7-12000	Medium Voltage Drive	ABB Ltd
VSD27307	ACS6209-A12-2a9	ACS6209-A12-2a9-15400	Medium Voltage Drive	ABB Ltd
VSD27308	ACS6209-A12-2a11	ACS6209-A12-2a11-18000	Medium Voltage Drive	ABB Ltd
VSD27309	ACS6309-A18-3a9	ACS6309-A18-3a9-23200	Medium Voltage Drive	ABB Ltd
VSD27310	ACS6105-L12-1s5	ACS6105-L12-1s5-4800	Medium Voltage Drive	ABB Ltd
VSD27311	ACS6107-L12-1s7	ACS6107-L12-1s7-6800	Medium Voltage Drive	ABB Ltd
VSD27312	ACS6109-L12-1s9	ACS6109-L12-1s9-8700	Medium Voltage Drive	ABB Ltd
VSD27313	ACS6114-L12-1s11	ACS6114-L12-1s11-10600	Medium Voltage Drive	ABB Ltd

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD27314	ACS6114-L12-2s7	ACS6114-L12-2s7-13500	Medium Voltage Drive	ABB Ltd
VSD27315	ACS6209-L12-2s9	ACS6209-L12-2s9-17400	Medium Voltage Drive	ABB Ltd
VSD27316	ACS6214-L12-2s11	ACS6214-L12-2s11-20300	Medium Voltage Drive	ABB Ltd
VSD27317	ACS6107-A06-1s7	ACS6107-A06-1s7-6700	Medium Voltage Drive	ABB Ltd
VSD27318	ACS6109-A06-1s9	ACS6109-A06-1s9-8600	Medium Voltage Drive	ABB Ltd
VSD27319	ACS6109-A06-1s11	ACS6109-A06-1s11-10500	Medium Voltage Drive	ABB Ltd
VSD27320	ACS6207-A12-2s7	ACS6207-A12-2s7-13400	Medium Voltage Drive	ABB Ltd
VSD27321	ACS6207-A12-2s9	ACS6209-A12-2s9-17200	Medium Voltage Drive	ABB Ltd
VSD27322	ACS6209-A12-2s11	ACS6209-A12-2s11-18000	Medium Voltage Drive	ABB Ltd
VSD27323	ACS6309-A18-3s9	ACS6309-A18-3s9-25800	Medium Voltage Drive	ABB Ltd
VSD27324	ACS6209-L24-1s9-1a9-1a7-1a5-1a3	ACS6209-L24-1s9-1a9-1a7-1a5-1a3-16500	Medium Voltage Drive	ABB Ltd
VSD27325	ACS6209-A12-1s9-1s9-1s7-1a5	ACS6209-A12-1s9-1s9-1s7-1a5-17400	Medium Voltage Drive	ABB Ltd
VSD27326	ACS6309-A18-2s9-2s7-1a5	ACS6309-A18-2s9-2s7-1a5-26100	Medium Voltage Drive	ABB Ltd
VSD27374	VACON0100-3L-0003-4-HVAC+SBF2	Vacon 100 HVAC 1.1kW IP21	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27375	VACON0100-3L-0004-4-HVAC+SBF2	Vacon 100 HVAC 1.5kW IP21	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27376	VACON0100-3L-0005-4-HVAC+SBF2	Vacon 100 HVAC 2.2kW IP21	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27377	VACON0100-3L-0008-4-HVAC+SBF2	Vacon 100 HVAC 3kW IP21	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27378	VACON0100-3L-0009-4-HVAC+SBF2	Vacon 100 HVAC 4kW IP21	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27379	VACON0100-3L-0012-4-HVAC+SBF2	Vacon 100 HVAC 5.5kW IP21	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27380	VACON0100-3L-0016-4-HVAC+SBF2	Vacon 100 HVAC 7.5kW IP21	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27381	VACON0100-3L-0023-4-HVAC+SBF2	Vacon 100 HVAC 11kW IP21	The Vacon 100 HVAC is an AC drive in the	Vacon

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD27382	VACON0100-3L-0031-4-HVAC+SBF2	Vacon 100 HVAC 15kW IP21	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27383	VACON0100-3L-0038-4-HVAC+SBF2	Vacon 100 HVAC 18.5kW IP21	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27384	VACON0100-3L-0046-4-HVAC+SBF2	Vacon 100 HVAC 22kW IP21	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27385	VACON0100-3L-0061-4-HVAC+SBF2	Vacon 100 HVAC 30kW IP21	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27386	VACON0100-3L-0003-4-HVAC+SBF2+IP54	Vacon 100 HVAC 1.1kW IP54	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27387	VACON0100-3L-0004-4-HVAC+SBF2+IP54	Vacon 100 HVAC 1.5kW IP54	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27388	VACON0100-3L-0005-4-HVAC+SBF2+IP54	Vacon 100 HVAC 2.2kW IP54	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27389	VACON0100-3L-0008-4-HVAC+SBF2+IP54	Vacon 100 HVAC 3kW IP54	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27390	VACON0100-3L-0009-4-HVAC+SBF2+IP54	Vacon 100 HVAC 4kW IP54	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27391	VACON0100-3L-0012-4-HVAC+SBF2+IP54	Vacon 100 HVAC 5.5kW IP54	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27392	VACON0100-3L-0016-4-HVAC+SBF2+IP54	Vacon 100 HVAC 7.5kW IP54	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27393	VACON0100-3L-0023-4-HVAC+SBF2+IP54	Vacon 100 HVAC 11kW IP54	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27394	VACON0100-3L-0031-4-HVAC+SBF2+IP54	Vacon 100 HVAC 15kW IP54	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27395	VACON0100-3L-0038-4-HVAC+SBF2+IP54	Vacon 100 HVAC 18.5kW IP54	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27396	VACON0100-3L-0046-4-HVAC+SBF2+IP54	Vacon 100 HVAC 22kW IP54	The Vacon 100 HVAC is an AC drive in the	Vacon

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD27397	VACON0100-3L-0061-4-HVAC+SBF2+IP54	Vacon 100 HVAC 30kW IP54	The Vacon 100 HVAC is an AC drive in the	Vacon
VSD27398	NXL00022C1-N0SSS0000	Vacon NXL 0.25kW 1Ph, IP20	The Vacon NXL is a compact AC drive for	Vacon
VSD27399	NXL00032C1-N1SSS0000	Vacon NXL 0.55kW 1Ph — IP20	The Vacon NXL is a compact AC drive for	Vacon
VSD27400	NXL00042C1-N1SSS0000	Vacon NXL 0.75kW 1Ph — IP20	The Vacon NXL is a compact AC drive for	Vacon
VSD27401	NXL00062C1-N1SSS0000	Vacon NXL 1.1kW 1Ph — IP20	The Vacon NXL is a compact AC drive for	Vacon
VSD27402	NXL00015C1-N0SSS0000	Vacon NXL 0.55kW IP20	The Vacon NXL is a compact AC drive for	Vacon
VSD27403	NXL00025C1-N0SSS0000	Vacon NXL 0.75kW IP20	The Vacon NXL is a compact AC drive for	Vacon
VSD27404	NXL00035C1-N1SSS0000	Vacon NXL 1.1kW IP20	The Vacon NXL is a compact AC drive for	Vacon
VSD27405	NXL00045C1-N1SSS0000	Vacon NXL 1.5kW IP20	The Vacon NXL is a compact AC drive for	Vacon
VSD27406	NXL00055C1-N1SSS0000	Vacon NXL 2.2kW IP20	The Vacon NXL is a compact AC drive for	Vacon
VSD27407	NXL00035C2-H1SSS0000	Vacon NXL 1.1kW	The Vacon NXL is a compact AC drive for	Vacon
VSD27408	NXL00045C2-H1SSS0000	Vacon NXL 1.5kW	The Vacon NXL is a compact AC drive for	Vacon
VSD27409	NXL00055C2-H1SSS0000	Vacon NXL 2.2kW	The Vacon NXL is a compact AC drive for	Vacon
VSD27410	NXL00075C2-H1SSS0000	Vacon NXL 3kW	The Vacon NXL is a compact AC drive for	Vacon
VSD27411	NXL00095C2-H1SSS0000	Vacon NXL 4kW	The Vacon NXL is a compact AC drive for	Vacon
VSD27412	NXL00125C2-H1SSS0000	Vacon NXL 5.5kW	The Vacon NXL is a compact AC drive for	Vacon
VSD27413	NXL00165C2-H1SSS0000	Vacon NXL 7.5kW	The Vacon NXL is a compact AC drive for	Vacon
VSD27414	NXL00235C2-H1SSS0000	Vacon NXL 11kW	The Vacon NXL is a compact AC drive for	Vacon

Aca Code	Product Code	Product Name	Short Description	Manufacturer
VSD27415	NXL00315C2-H1SSS0000	Vacon NXL 15kW	The Vacon NXL is a compact AC drive for	Vacon
VSD27416	NXL00385C2-H1SSS0000	Vacon NXL 18.5kW	The Vacon NXL is a compact AC drive for	Vacon
VSD27417	NXL00465C2-H1SSS0000	Vacon NXL 22kW	The Vacon NXL is a compact AC drive for	Vacon
VSD27418	NXL00615C2-H1SSS0000	Vacon NXL 30kW	The Vacon NXL is a compact AC drive for	Vacon

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12. Part 3 of Schedule 2 to the Principal Order is amended by inserting the following:

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Aca Code	Product Code	Product Name	Short Description	Manufacturer
LIG13669	ECHO FA 1200-228 PF BE.	ALTER.	2X28W T5 RECESSED INDIRECT LUMIN WITH MICRO PERFORATED DIFFUSER & OPAL DIFFUSER	Alter
LIG27477	SW14029.	SOLOW XL 4x80w P.B.	4x80w Poly Broad	Thorlux Lighting
LIG27478	SW14041.	SOLOW XL S 4x80w P.B.	4x80w Poly Broad Smart	Thorlux Lighting
LIG27480	5NA557E1MT0G	SQ5070HQI	SQ50 70w HQI road lantern with flat glass cover	siteco Lighting Limited
LIG27481	5NA558E1-PT1C236	SQ100150SON	SQ100 150w HPSodium road lantern with flat glass cover	siteco Lighting Limited
LIG27482	5NA559E-1ST1C236	SQ200250SON	SQ200 250w HPSodium road lantern with flat glass cover	siteco Lighting Limited
LIG27483	5NA559E1-STOC236	SQ200250HQI	SQ200 250w HQI road lantern with flat glass cover	siteco Lighting Limited
LIG27484	SW14021.	SOLOW XL 4x54w O.B.	4x54w Open Broad.	Thorlux Lighting
LIG27485	SW14024.	SOLOW XL 4x54w O.N.	4x54w Open Narrow.	Thorlux Lighting
LIG27486	SW14027.	SOLOW XL 4x54w P.B.	4x54w Poly Broad.	Thorlux Lighting

Aca Code	Product Code	Product Name	Short Description	Manufacturer
LIG27487	SW14030.	SOLOW XL 4x54w P.N.	4x54w Poly Narrow.	Thorlux Lighting
LIG27488	SW14033.	SOLOW XL S 4x54w O.B.	4x54w Open Broad Smart.	Thorlux Lighting
LIG27489	SW14036.	SOLOW XL S 4x54w O.N.	4x54w Open Narrow Smart.	Thorlux Lighting
LIG27490	SW14039.	SOLOW XL S 4x54w P.B.	4x54w Poly Broad Smart.	Thorlux Lighting
LIG27491	SW14042.	SOLOW XL S 4x54w P.N.	4x54w Poly Narrow Smart.	Thorlux Lighting
LIG28648	HILUX449T5	HILUX-449T5	Low profile T5 low-bay luminaire	Tamlite Lighting
LIG28649	HILUX454T5	HILUX-454T5	Low profile T5 low-bay luminaire	Tamlite Lighting
LIG28650	HILUX428T5	HILUX-428T5	Low profile T5 low-bay luminaire	Tamlite Lighting
LIG28651	HILUX435T5	HILUX-435T5	Low profile T5 low-bay luminaire	Tamlite Lighting
LIG28652	HILUX235T5	HILUX-235T5	Low profile T5 low-bay luminaire	Tamlite Lighting
LIG28653	HILUX249T5	HILUX-249T5	Low profile T5 low-bay luminaire	Tamlite Lighting
LIG28654	HILUX254T5	HILUX-254T5	Low profile T5 low-bay luminaire	Tamlite Lighting
LIG28655	HILUX180T5	HILUX-180T5	Low profile T5 low-bay luminaire	Tamlite Lighting
LIG28656	HILUX280T5	HILUX-280T5	Low profile T5 low-bay luminaire	Tamlite Lighting
LIG28657	HILUX449T5/ HILUXCP4T5	HILUX-449T5- CP	Low profile T5 low-bay luminaire c/w clear diffuser	Tamlite Lighting
LIG28658	HILUX454T5/ HILUXCP4T5 (4FT)	HILUX-454T5- CP	Low profile T5 low-bay luminaire c/w clear diffuser	Tamlite Lighting
LIG28659	HILUX428T5/ HILUXCP4T5 (4FT)	HILUX-428T5- CP	Low profile T5 low-bay luminaire c/w clear diffuser	Tamlite Lighting
LIG28660	HILUX435T5/ HILUXCP4T5	HILUX-435T5- CP	Low profile T5 low-bay luminaire c/w clear diffuser	Tamlite Lighting

Aca Code	Product Code	Product Name	Short Description	Manufacturer
LIG28661	HILUX235T5/ HILUXCP2T5	HILUX-235T5- CP	Low profile T5 low-bay luminaire c/w clear diffuser	Tamlite Lighting
LIG28662	HILUX249T5/ HILUXCP2T5	HILUX-249T5- CP	Low profile T5 low-bay luminaire c/w clear diffuser	Tamlite Lighting
LIG28663	HILUX254T5/ HILUXCP2T5 (4FT)	HILUX-254T5- CP	Low profile T5 low-bay luminaire c/w clear diffuser	Tamlite Lighting
LIG28664	HILUX180T5/ HILUXCP1T5	HILUX-180T5- CP	Low profile T5 low-bay luminaire c/w clear diffuser	Tamlite Lighting
LIG28665	HILUX280T5/ HILUXCP2T5	HILUX-280T5- CP	Low profile T5 low-bay luminaire c/w clear diffuser	Tamlite Lighting
LIG28666	HILUX449T5/ HILUXWG4T5	HILUX-449T5- WG	Low profile T5 low-bay luminaire c/w wire guard	Tamlite Lighting
LIG28667	HILUX454T5/ HILUXWG4T5 (4FT)	HILUX-454T5- WG	Low profile T5 low-bay luminaire c/w wire guard	Tamlite Lighting
LIG28668	HILUX428T5/ HILUXWG4T5 (4FT)	HILUX-428T5- WG	Low profile T5 low-bay luminaire c/w wire guard	Tamlite Lighting
LIG28669	HILUX435T5/ HILUXWG4T5	HILUX-435T5- WG	Low profile T5 low-bay luminaire c/w wire guard	Tamlite Lighting
LIG28670	HILUX235T5/ HILUXWG2T5	HILUX-235T5- WG	Low profile T5 low-bay luminaire c/w wire guard	Tamlite Lighting
LIG28671	HILUX249T5/ HILUXWG2T5	HILUX-249T5- WG	Low profile T5 low-bay luminaire c/w wire guard	Tamlite Lighting
LIG28672	HILUX254T5/ HILUXWG2T5 (4FT)	HILUX-254T5- WG	Low profile T5 low-bay luminaire c/w wire guard	Tamlite Lighting
LIG28673	HILUX180T5/ HILUXWG1T5	HILUX-180T5- WG	Low profile T5 low-bay luminaire c/w wire guard	Tamlite Lighting
LIG28674	HILUX280T5/ HILUXWG2T5	HILUX-280T5- WG	Low profile T5 low-bay luminaire c/w wire guard	Tamlite Lighting

Aca Code	Product Code	Product Name	Short Description	Manufacturer
LIG28675	TREMWS664/ VDT/HF	TREM PREMIER WS 600mm	Recessed 600x600 4 lamp c/w VDT louvre	Tamlite Lighting
LIG28676	TREMWS1264/ VDT/HF	TREM PREMIER WS 1200mm	Recessed 1200x600 4 lamp c/w VDT louvre	Tamlite Lighting
LIG28677	TREMRF664/ VDT/HF	TREM PREMIER RF 600mm	Rapid fit recessed 600x600 4 lamp c/w VDT louvre	Tamlite Lighting
LIG28678	TREMRF1264/ VDT/HF	TREM PREMIER RF 1200mm	Rapid fit recessed 1200x600 4 lamp c/w VDT louvre	Tamlite Lighting
LIG29080	TCW216 1X49W HFP PI	Pacific 1x49	Vapour proof surface luminaire	Philips
LIG29081	TCW216 1X80W HFP WB	Pacific 1x80	Vapour proof surface luminaire	Philips
LIG29082	TCW216 2X49W HFP PI	Pacific 2x49	Vapour proof surface luminaire	Philips
LIG29083	TBS260 4xTL5- 14W/840 HF C6	Efix 260 4x14	Recessed modular luminaire	Philips
LIG29109	EC14	ECO T5 14	Adaptor to convert from T8 to T5	ACEC Distributors
LIG29110	EC28	ECO T5 28	Adaptor to convert from T8 to T5	ACEC Distributors
LIG29111	EC35	ECO T5 35	Adaptor to convert from T8 to T5	ACEC Distributors
LIG29202	EL-T60-CW9	LED 600mm Tube	LED 600mm Tube 9 watt	Spark
LIG29203	EL-T120-CW18	LED 1200mm Tube	LED 1200mm 18 watt tube	Spark
LIG29204	EL-T150-CW22	LED 1500mm tube	LED 1500mm 22 watt tube	Spark

”.

13. Part 4 of Schedule 2 to the Principal Order is amended by inserting the following:

Aca Code	Product Code	Product Name	Short Description	Manufacturer
LCO12401	CLSI-C6	iLux	iLux is designed to operate as a stand-alone lighting and shade control system, or as part of a complete automation solution	Crestron
LCO12611	CLXI.	Crestron CLX Lighting Control.	Crestron CLXI lighting control systems are designed for Commercial, Residential, New Build and Retro Fit lighting projects	Crestron
LCO12612	DIN.	DIN Rail.	Crestron DIN Rail lighting control systems are designed for Commercial, Residential, New Build and Retro Fit lighting projects	Crestron
LCO12740	CRMA-00/01	Room Manager	is a central device for displaying, executing and controlling lighting with timer programmes or in conjunction with sensors;	Moeller Gebäude-automation GmbH
LCO27470	Light Eco Plus 2.4	Light Eco Plus Real-Time 2.4	Light Eco plus is an energy controller for use with lighting.	Illum-a-Lite Pty Ltd
LCO27471	Light Eco Plus 3.8	Light Eco Plus Real-Time 3.8	Light Eco plus is an energy controller for use with lighting.	Illum-a-Lite Pty Ltd
LCO27472	Light Eco Plus 4.8	Light Eco Plus Real-Time 4.8	Light Eco plus is an energy controller for use with lighting.	Illum-a-Lite Pty Ltd
LCO27473	Light Eco Plus HID 3.8	Light Eco Plus HID Real-Time 3.8	Light Eco plus is an energy controller for use with lighting.	Illum-a-Lite Pty Ltd

Aca Code	Product Code	Product Name	Short Description	Manufacturer
LCO28149	ECO-MAX.	ECO-MAX.	A configurable Centralised Lighting Control System for dimming/switching discharge lighting, such as Son, Metal Halide, Fluorescent, to either daylight/time/ presence or all	G W Energy limited

”.

14. Part 5 of Schedule 2 to the Principal Order is amended by inserting the following:

“

Aca Code	Product Code	Product Name	Short Description	Manufacturer
BEM12560	ESLI100105.	EIServer.	Is an advanced multivendor multiprotocol automatic & remote meter reading open software platform. It's main functions is to collect energy consumption data and to transform it into useful information.	EnergyICT Limited
BEM26585	4805000	Control Vision	Energy monitoring system	Socomec
BEM29970	DCS: ES01	DCS: Web Portal	An online interface used for monitoring energy consumption. Network of wireless sensors collects data that is then logged into the server, analyzed and presented to identify energy inefficiencies.	DCS Energy Savings

”.

15. Part 6 of Schedule 2 to the Principal Order is amended by inserting the following:

“

Aca Code	Product Code	Product Name	Short Description	Manufacturer
ESE24915	R710	Poweredge R710	Dell Inc. PowerEdge R710 (Intel Xeon X5570, 2.93 GHz)	Dell
ESE24916	R610	Poweredge R610	Dell Inc. PowerEdge R610 (Intel Xeon X5570, 2.93 GHz)	Dell
ESE29334	R210X3470	R210-X3470	PowerEdge R210	Dell
ESE29335	R410X5570	R410-X5570	PowerEdge R410	Dell
ESE29336	R710L5530	R710-L5530	PowerEdge R710	Dell
ESE29337	R710X5570	R710-X5570	PowerEdge R710	Dell
ESE29338	T310X3470	T310-X3470	PowerEdge T310	Dell
ESE29339	T610X5570	T610-X5570	PowerEdge T610	Dell

”.

16. Part 7 of Schedule 2 to the Principal Order is amended by inserting the following:

“

Aca Code	Product Code	Product Name	Short Description	Manufacturer
EST27422	CX4-120	EMC CLARiiON CX4-120	EMC CLARiiON CX4 Model 120 Networked Storage System	EMC INFORMATION SYSTEMS INTER- NATIONAL
EST27423	CX4-240	EMC CLARiiON CX4-240	EMC CLARiiON CX4 Model 240 Networked Storage System	EMC INFORMATION SYSTEMS INTER- NATIONAL
EST27424	CX4-480	EMC CLARiiON CX4-48	EMC CLARiiON CX4 Model 480 Networked Storage System	EMC INFORMATION SYSTEMS INTER- NATIONAL
EST27425	CX4-960	EMC CLARiiON CX4-960	EMC CLARiiON CX4 Model 960 Networked Storage System	EMC INFORMATION SYSTEMS INTER- NATIONAL

”.

17. Schedule 2 to the Principal Order is amended by inserting the following:

“

Part 13

Co-generation

Aca Code	Product Code	Product Name	Short Description	Manufacturer
CGE27462	G5.5	Natural Gas Fired Dachs	Natural Gas Fired Engine Driven Micro CHP System	SenerTec GmbH
CGE27463	G5.0	Natural Gas Fired Dachs Low Nox	Natural Gas Fired Engine Driven Micro CHP System, Low Nox version	SenerTec GmbH
CGE27464	F5.5	LPG Fired Dachs Low Nox	LPG Fired Engine Driven Micro CHP System, Low Nox version as standard	SenerTec GmbH

”.

18. Part 14 of Schedule 2 to the Principal Order is amended by inserting the following:

“

Aca Code	Product Code	Product Name	Short Description	Manufacturer
WTU25227	WT 6000	WT6000	Proven Energy 6kW wind turbine	Proven Energy Ltd
WTU25228	WT 15000	WT15000	Proven Energy 15kW wind turbine	Proven Energy Ltd
WTU26538	E-70	E-70	Gearless wind turbine with variable speed, variable pitch control, 71m rotor diameter, 57-114m hub height, IEC wind class 1A or 2A	ENERCON GmbH
WTU26539	E-82	E-82	Gearless wind turbine with variable speed, variable pitch control, 82m rotor diameter, 78-138m hub height, IEC wind class 2A	ENERCON GmbH

Aca Code	Product Code	Product Name	Short Description	Manufacturer
WTU26540	E-53	E-53	Gearless wind turbine with variable speed, variable pitch control, 53m rotor diameter, 60/73m hub height, IEC wind class S	ENERCON GmbH
WTU26541	E-48	E-48	Gearless wind turbine with variable speed, variable pitch control, 48m rotor diameter, 50-76m hub height, IEC wind class 2A	ENERCON GmbH
WTU26542	E-44	E-44	Gearless wind turbine with variable speed, variable pitch control, 44m rotor diameter, 45/55m hub height, IEC wind class S/1A	ENERCON GmbH
WTU26543	E-33	E-33	Gearless wind turbine with variable speed, variable pitch control, 33m rotor diameter, 37-50m hub height, IEC wind class 1A/ 2A	ENERCON GmbH

”.

19. Part 18 of Schedule 2 to the Principal Order is amended by inserting the following:

“

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PSY28877	SL1-70	Q-Cells Module SL1-70	CIGS Thin Film Solar Module	Q-cells Solibro GmbH
PSY28878	SL1-75	Q-Cells Module SL1-75	CIGS Thin Film Solar Module	Q-cells Solibro GmbH
PSY28887	SL1-80	Q.Cells Module SL1-80	CIGS Thin Film Solar Module	Q-cells Solibro GmbH
PSY28888	SL1-85	Q.Cells Module SL1-85	CIGS Thin Film Solar Module	Q-cells Solibro GmbH
PSY28890	SL1-70F	Q-Cells Module SL1-70F	CIGS Thin Film Solar Module c/w Frame	Q-cells Solibro GmbH
PSY28891	SL1-75F	Q.Cells Module SL1-75F	CIGS Thin Film Solar Module c/w Frame	Q-cells Solibro GmbH

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PSY28892	SL1-80F	Q.Cells Module SL1-80F	CIGS Thin Film Solar Module c/w Frame	Q-cells Solibro GmbH
PSY28893	SL1-85F	Q.Cells Module SL1-85F	CIGS Thin Film Solar Module c/w Frame	Q-cells Solibro GmbH

”.

20. Schedule 2 to the Principal Order is amended by inserting the following:

“

Part 22

Heating, Ventilation and Air Condition (HVAC) Zone Controls

Aca Code	Product Code	Product Name	Short Description	Manufacturer
HZC17402	cc-rm-ic	Rad Master	The RadMaster® is an energy management system, can be configured to manage multiple energy sources and exchangers in a single package. Zoning capabilities up to 32 zone domestic & 1024 zone commercial	Comeragh Controls

”.

21. Schedule 2 to the Principal Order is amended by inserting the following:

“

Part 24

Pumps

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29368	96935477	CM5-12	The Grundfos CM are Multistage Pumps	Grundfos
PUM29369	96935470	CM5-8	The Grundfos CM are Multistage Pumps	Grundfos
PUM29370	96935478	CM5-13	The Grundfos CM are Multistage Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29371	96935452	CM3-13	The Grundfos CM are Multistage Pumps	Grundfos
PUM29372	96935450	CM3-12	The Grundfos CM are Multistage Pumps	Grundfos
PUM29373	96935446	CM3-10	The Grundfos CM are Multistage Pumps	Grundfos
PUM29374	96935448	CM3-11	The Grundfos CM are Multistage Pumps	Grundfos
PUM29375	96935453	CM3-14	The Grundfos CM are Multistage Pumps	Grundfos
PUM29376	96935428	CM1-14	The Grundfos CM are Multistage Pumps	Grundfos
PUM29377	96935919	CME5-2	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos
PUM29378	96935923	CME5-3	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos
PUM29379	96935935	CME5-7	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos
PUM29380	96935933	CME5-6	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos
PUM29381	96935897	CME1-8	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos
PUM29382	96935927	CME5-4	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos
PUM29383	96935893	CME1-6	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29384	96935895	CME1-7	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos
PUM29385	96935891	CME1-5	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos
PUM29386	96935931	CME5-5	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos
PUM29387	96935937	CME5-8	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos
PUM29388	96935899	CME1-9	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos
PUM29389	96935907	CME3-3	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos
PUM29390	96806939	CME3-5	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos
PUM29391	96806938	CME3-4	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos
PUM29392	96935911	CME3-7	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos
PUM29393	96935915	CME3-9	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos
PUM29394	96935913	CME3-8	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos
PUM29395	96935909	CME3-6	The Grundfos CME are Variable Speed Multistage Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29396	96537601	CR 1-17	The Grundfos CR are Multistage Pumps	Grundfos
PUM29397	96516190	CR 1-19	The Grundfos CR are Multistage Pumps	Grundfos
PUM29398	96516192	CR 1-21	The Grundfos CR are Multistage Pumps	Grundfos
PUM29399	96516193	CR 1-23	The Grundfos CR are Multistage Pumps	Grundfos
PUM29400	96516255	CR 1-25	The Grundfos CR are Multistage Pumps	Grundfos
PUM29401	96516256	CR 1-27	The Grundfos CR are Multistage Pumps	Grundfos
PUM29402	96516257	CR 1-30	The Grundfos CR are Multistage Pumps	Grundfos
PUM29403	96513309	CR 1-33	The Grundfos CR are Multistage Pumps	Grundfos
PUM29404	96513340	CR 1-36	The Grundfos CR are Multistage Pumps	Grundfos
PUM29405	96516598	CR 3-11	The Grundfos CR are Multistage Pumps	Grundfos
PUM29406	96516599	CR 3-12	The Grundfos CR are Multistage Pumps	Grundfos
PUM29407	96516600	CR 3-13	The Grundfos CR are Multistage Pumps	Grundfos
PUM29408	96516601	CR 3-15	The Grundfos CR are Multistage Pumps	Grundfos
PUM29409	96516602	CR 3-17	The Grundfos CR are Multistage Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29410	96516603	CR 3-19	The Grundfos CR are Multistage Pumps	Grundfos
PUM29411	96513343	CR 3-21	The Grundfos CR are Multistage Pumps	Grundfos
PUM29412	96513344	CR 3-23	The Grundfos CR are Multistage Pumps	Grundfos
PUM29413	96513347	CR 3-25	The Grundfos CR are Multistage Pumps	Grundfos
PUM29414	96513348	CR 3-27	The Grundfos CR are Multistage Pumps	Grundfos
PUM29415	96513349	CR 3-29	The Grundfos CR are Multistage Pumps	Grundfos
PUM29416	96513350	CR 3-31	The Grundfos CR are Multistage Pumps	Grundfos
PUM29417	96513351	CR 3-33	The Grundfos CR are Multistage Pumps	Grundfos
PUM29418	96513352	CR 3-36	The Grundfos CR are Multistage Pumps	Grundfos
PUM29419	96511750	CR 5-8	The Grundfos CR are Multistage Pumps	Grundfos
PUM29420	96516993	CR 5-10	The Grundfos CR are Multistage Pumps	Grundfos
PUM29421	96516992	CR 5-9	The Grundfos CR are Multistage Pumps	Grundfos
PUM29422	96513368	CR 5-16	The Grundfos CR are Multistage Pumps	Grundfos
PUM29423	96513367	CR 5-15	The Grundfos CR are Multistage Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29424	96513365	CR 5-14	The Grundfos CR are Multistage Pumps	Grundfos
PUM29425	96513364	CR 5-13	The Grundfos CR are Multistage Pumps	Grundfos
PUM29426	96513363	CR 5-12	The Grundfos CR are Multistage Pumps	Grundfos
PUM29427	96482164	CR 5-11	The Grundfos CR are Multistage Pumps	Grundfos
PUM29428	96513380	CR 5-20	The Grundfos CR are Multistage Pumps	Grundfos
PUM29429	96513369	CR 5-18	The Grundfos CR are Multistage Pumps	Grundfos
PUM29430	96513392	CR 5-29	The Grundfos CR are Multistage Pumps	Grundfos
PUM29431	96513391	CR 5-26	The Grundfos CR are Multistage Pumps	Grundfos
PUM29432	96513390	CR 5-24	The Grundfos CR are Multistage Pumps	Grundfos
PUM29433	96513381	CR 5-22	The Grundfos CR are Multistage Pumps	Grundfos
PUM29434	96513394	CR 5-36	The Grundfos CR are Multistage Pumps	Grundfos
PUM29435	96513393	CR 5-32	The Grundfos CR are Multistage Pumps	Grundfos
PUM29436	96500978	CR 10-22	The Grundfos CR are Multistage Pumps	Grundfos
PUM29437	96500976	CR 10-18	The Grundfos CR are Multistage Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29438	96500975	CR 10-16	The Grundfos CR are Multistage Pumps	Grundfos
PUM29439	96500990	CR 10-14	The Grundfos CR are Multistage Pumps	Grundfos
PUM29440	96500989	CR 10-12	The Grundfos CR are Multistage Pumps	Grundfos
PUM29441	96500972	CR 10-10	The Grundfos CR are Multistage Pumps	Grundfos
PUM29442	96500971	CR 10-9	The Grundfos CR are Multistage Pumps	Grundfos
PUM29443	96500970	CR 10-8	The Grundfos CR are Multistage Pumps	Grundfos
PUM29444	96500969	CR 10-7	The Grundfos CR are Multistage Pumps	Grundfos
PUM29445	96500968	CR 10-6	The Grundfos CR are Multistage Pumps	Grundfos
PUM29446	96500967	CR 10-5	The Grundfos CR are Multistage Pumps	Grundfos
PUM29447	96500966	CR 10-4	The Grundfos CR are Multistage Pumps	Grundfos
PUM29448	96500965	CR 10-3	The Grundfos CR are Multistage Pumps	Grundfos
PUM29449	96501706	CR 15-10	The Grundfos CR are Multistage Pumps	Grundfos
PUM29450	96501707	CR 15-12	The Grundfos CR are Multistage Pumps	Grundfos
PUM29451	96501708	CR 15-14	The Grundfos CR are Multistage Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29452	96501709	CR 15-17	The Grundfos CR are Multistage Pumps	Grundfos
PUM29453	96501711	CR 15-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29454	96501699	CR 15-3	The Grundfos CR are Multistage Pumps	Grundfos
PUM29455	96501700	CR 15-4	The Grundfos CR are Multistage Pumps	Grundfos
PUM29456	96501701	CR 15-5	The Grundfos CR are Multistage Pumps	Grundfos
PUM29457	96501702	CR 15-6	The Grundfos CR are Multistage Pumps	Grundfos
PUM29458	96501703	CR 15-7	The Grundfos CR are Multistage Pumps	Grundfos
PUM29459	96501704	CR 15-8	The Grundfos CR are Multistage Pumps	Grundfos
PUM29460	96501705	CR 15-9	The Grundfos CR are Multistage Pumps	Grundfos
PUM29461	96122063	CR 32-1	The Grundfos CR are Multistage Pumps	Grundfos
PUM29462	96122137	CR 32-10	The Grundfos CR are Multistage Pumps	Grundfos
PUM29463	96122024	CR 32-10-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29464	96122139	CR 32-11	The Grundfos CR are Multistage Pumps	Grundfos
PUM29465	96122138	CR 32-11-2	The Grundfos CR are Multistage Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29466	96122141	CR 32-12	The Grundfos CR are Multistage Pumps	Grundfos
PUM29467	96122140	CR 32-12-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29468	96122031	CR 32-13	The Grundfos CR are Multistage Pumps	Grundfos
PUM29469	96122142	CR 32-13-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29470	96122033	CR 32-14	The Grundfos CR are Multistage Pumps	Grundfos
PUM29471	96122144	CR 32-14-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29472	96122065	CR 32-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29473	96122064	CR 32-2-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29474	96122067	CR 32-3	The Grundfos CR are Multistage Pumps	Grundfos
PUM29475	96122066	CR 32-3-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29476	96122069	CR 32-4	The Grundfos CR are Multistage Pumps	Grundfos
PUM29477	96122068	CR 32-4-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29478	96122127	CR 32-5	The Grundfos CR are Multistage Pumps	Grundfos
PUM29479	96122126	CR 32-5-2	The Grundfos CR are Multistage Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29480	96122129	CR 32-6	The Grundfos CR are Multistage Pumps	Grundfos
PUM29481	96122128	CR 32-6-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29482	96122131	CR 32-7	The Grundfos CR are Multistage Pumps	Grundfos
PUM29483	96122130	CR 32-7-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29484	96122133	CR 32-8	The Grundfos CR are Multistage Pumps	Grundfos
PUM29485	96122132	CR 32-8-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29486	96122135	CR 32-9	The Grundfos CR are Multistage Pumps	Grundfos
PUM29487	96122134	CR 32-9-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29488	96122747	CR 45-1	The Grundfos CR are Multistage Pumps	Grundfos
PUM29489	96122915	CR 45-10	The Grundfos CR are Multistage Pumps	Grundfos
PUM29490	96122764	CR 45-10-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29491	96122767	CR 45-11	The Grundfos CR are Multistage Pumps	Grundfos
PUM29492	96122816	CR 45-11-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29493	96122769	CR 45-12	The Grundfos CR are Multistage Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29494	96122818	CR 45-12-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29495	96122749	CR 45-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29496	96122748	CR 45-2-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29497	96122801	CR 45-3	The Grundfos CR are Multistage Pumps	Grundfos
PUM29498	96122800	CR 45-3-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29499	96122753	CR 45-4	The Grundfos CR are Multistage Pumps	Grundfos
PUM29500	96122752	CR 45-4-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29501	96122755	CR 45-5	The Grundfos CR are Multistage Pumps	Grundfos
PUM29502	96122754	CR 45-5-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29503	96122757	CR 45-6	The Grundfos CR are Multistage Pumps	Grundfos
PUM29504	96122756	CR 45-6-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29505	96122759	CR 45-7	The Grundfos CR are Multistage Pumps	Grundfos
PUM29506	96122758	CR 45-7-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29507	96122761	CR 45-8	The Grundfos CR are Multistage Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29508	96122760	CR 45-8-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29509	96122763	CR 45-9	The Grundfos CR are Multistage Pumps	Grundfos
PUM29510	96122762	CR 45-9-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29511	96123572	CR 64-2-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29512	96123621	CR 64-3	The Grundfos CR are Multistage Pumps	Grundfos
PUM29513	96123620	CR 64-3-1	The Grundfos CR are Multistage Pumps	Grundfos
PUM29514	96123619	CR 64-3-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29515	96123624	CR 64-4	The Grundfos CR are Multistage Pumps	Grundfos
PUM29516	96123623	CR 64-4-1	The Grundfos CR are Multistage Pumps	Grundfos
PUM29517	96123622	CR 64-4-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29518	96123627	CR 64-5	The Grundfos CR are Multistage Pumps	Grundfos
PUM29519	96123626	CR 64-5-1	The Grundfos CR are Multistage Pumps	Grundfos
PUM29520	96123625	CR 64-5-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29521	96123630	CR 64-6	The Grundfos CR are Multistage Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29522	96123497	CR 64-6-1	The Grundfos CR are Multistage Pumps	Grundfos
PUM29523	96123496	CR 64-6-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29524	96123501	CR 64-7	The Grundfos CR are Multistage Pumps	Grundfos
PUM29525	96123500	CR 64-7-1	The Grundfos CR are Multistage Pumps	Grundfos
PUM29526	96123631	CR 64-7-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29527	96123635	CR 64-8-1	The Grundfos CR are Multistage Pumps	Grundfos
PUM29528	96123634	CR 64-8-2	The Grundfos CR are Multistage Pumps	Grundfos
PUM29529	96512859	CRE 20-2	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29530	96512870	CRE 20-3	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29531	96512871	CRE 20-5	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29532	96512872	CRE 20-7	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29533	96512878	CRE 20-10	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29534	96512879	CRE 20-14	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29535	96512880	CRE 20-17	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29536	96518431	CRE 5-10	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29537	96518432	CRE 5-16	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29538	96518433	CRE 5-20	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29539	96518446	CRE 5-29	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29540	96627378	CRE 5-22	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29541	96518447	CRE 5-36	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29542	96512565	CRE 10-3	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29543	96512566	CRE 10-4	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29544	96512567	CRE 10-6	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29545	96512568	CRE 10-9	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29546	96512569	CRE 10-12	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29547	96563944	CRE 10-14	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29548	96512570	CRE 10-16	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29549	96512571	CRE 10-22	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29550	96512702	CRE 15-2	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29551	96512703	CRE 15-3	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29552	96512704	CRE 15-5	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29553	96512705	CRE 15-7	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29554	96512711	CRE 15-9	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29555	96512808	CRE 15-14	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29556	96512809	CRE 15-17	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29557	96524689	CRE 15-10	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29558	96122640	CRE 32-2-2	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29559	96122641	CRE 32-2	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29560	96122642	CRE 32-3	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29561	96122643	CRE 32-4	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29562	96122644	CRE 32-6	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29563	96122645	CRE 32-8	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29564	96122646	CRE 32-10	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29565	96122647	CRE 32-12	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29566	96553596	CRE 32-7	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29567	96123396	CRE 45-2-2	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29568	96123397	CRE 45-2	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29569	96123398	CRE 45-3	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29570	96123399	CRE 45-4	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29571	96123400	CRE 45-5	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29572	96123401	CRE 45-6	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29573	96123980	CRE 64-2-2	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29574	96123982	CRE 64-3-1	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29575	96123983	CRE 64-4-2	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29576	96123984	CRE 64-4	The Grundfos CRE are Variable Speed Multistage Pumps	Grundfos
PUM29577	96125008	NB 50-160/158	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29578	96533996	NB 32-125/142	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29579	95108870	NB 65-160/143	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29580	96125076	NB 65-200/198	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29581	95109833	NB 150-400/412	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29582	95109874	NB 125-315/338	The Grundfos NB are Endsuction Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29583	95108869	NB 65-125/144 2P	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29584	95108890	NB 80-250/257	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29585	96126324	NB 50-250/254	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29586	95109670	NB 65-315/320	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29587	96124942	NB 32-125.1/140	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29588	95109788	NB 100-315/334	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29589	95108897	NB 100-160/160- 156	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29590	95109902	NB 150-400/408	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29591	96125012	NB 50-160/167	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29592	96125160	NB 80-315/334	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29593	95108999	NB 80-200/222	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29594	96124973	NB 40-160/158	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29595	95108974	NB 50-250/241	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29596	96126365	NB 100-315/326	The Grundfos NB are Endsuction Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29597	96125051	NB 65-160/149	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29598	95109650	NB 50-250/263 2P	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29599	95108965	NB 50-125/144	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29600	96125058	NB 65-160/157	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29601	95108843	NB 40-125/142	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29602	95108838	NB 32-200/219	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29603	96125218	NB 150-200/218-208	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29604	96124935	NB 32-200/206	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29605	96124988	NB 40-250/230	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29606	96124980	NB 40-200/217	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29607	96533669	NB 40-125/139	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29608	96125021	NB 50-200/198	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29609	95109066	NB 150-400/431	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29610	96125147	NB 80-250/270	The Grundfos NB are Endsuction Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29611	95108971	NB 50-200/188	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29612	95108955	NB 40-200/219	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29613	95108891	NB 80-250/270 2P	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29614	95109135	NB 150-400/430	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29615	95109067	NB 150-400/438	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29616	96533677	NB 50-250/263	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29617	96124956	NB 32-200.1/205	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29618	95109818	NB 150-200/224	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29619	95108953	NB 40-160/177	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29620	95108833	NB 32-200.1/207	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29621	96125052	NB 65-160/165	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29622	96533678	NB 65-200/205	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29623	95108846	NB 40-160/177 2P	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29624	96124975	NB 40-160/172	The Grundfos NB are Endsuction Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29625	96533676	NB 40-250/260	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29626	95108927	NB 150-200/216-176	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29627	95108858	NB 50-160/177 2P	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29628	96125060	NB 65-160/173	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29629	96126315	NB 50-200/210 2P	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29630	95108829	NB 32-160.1/177	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29631	96125033	NB 65-125/144	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29632	96534035	NB 32-160.1/169	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29633	96125009	NB 50-160/175	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29634	95108871	NB 65-160/177 2P	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29635	95108929	NB 150-200/224 2P	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29636	96533679	NB 65-200/219	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29637	96125040	NB 65-125/137	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29638	96125023	NB 50-200/219 2P	The Grundfos NB are Endsuction Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29639	95108968	NB 50-160/177	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29640	96125078	NB 65-200/217	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29641	96125055	NB 65-160/177	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29642	95120701	NB 65-200/219 2P	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29643	96126288	NB 40-250/245	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29644	96124990	NB 40-250/255	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29645	96125019	NB 50-200/219	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29646	96125017	NB 50-200/210	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29647	95109639	NB 40-250/260 2P	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29648	96125002	NB 50-125/144 2P	The Grundfos NB are Endsuction Pumps	Grundfos
PUM29649	96125302	NBE 32- 125.1/140	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29650	96539006	NBE 50-160/158	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29651	96539044	NBE 65-200/198	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29652	95108671	NBE 50-315/333	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29653	95108638	NBE 65-160/143	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29654	96539046	NBE 65-315/314	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29655	95108672	NBE 50-315/344	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29656	95108618	NBE 32-200/219	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29657	96539033	NBE 50-160/167	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29658	95108667	NBE 50-250/241	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29659	96125307	NBE 40-160/158	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29660	96539023	NBE 40-250/230	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29661	96125305	NBE 32-200/206	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29662	95108646	NBE 32-250/260	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29663	95108689	NBE 80-200/222	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29664	96539057	NBE 80-315/334	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29665	95108643	NBE 100-160/160-156	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29666	96539000	NBE 40-200/217	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29667	95108623	NBE 40-125/142	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29668	95108683	NBE 65-315/320	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29669	96539035	NBE 50-200/198	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29670	96539041	NBE 65-160/157	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29671	96538996	NBE 40-125/139	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29672	96539011	NBE 65-160/149	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29673	95108651	NBE 40-200/219	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29674	96538992	NBE 32-200.1/205	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29675	95108613	NBE 32-200.1/207	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29676	96539053	NBE 80-250/270	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29677	96539070	NBE 150-200/218-208	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29678	95108648	NBE 32-250/262	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29679	96125316	NBE 50-250/263	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29680	96125319	NBE 65-200/205	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29681	96539002	NBE 40-250/260	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29682	95108626	NBE 40-160/177	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29683	96538998	NBE 40-160/172	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29684	95108716	NBE 150-200/224	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29685	96539012	NBE 65-160/165	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29686	96538987	NBE 32-160.1/169	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29687	95108610	NBE 32-160.1/177	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29688	96539042	NBE 65-160/173	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29689	96539010	NBE 65-125/144	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29690	96539007	NBE 50-160/175	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29691	95108639	NBE 65-160/177	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29692	96539038	NBE 50-200/219	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29693	96539013	NBE 65-200/219	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29694	96539024	NBE 40-250/245	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29695	95108661	NBE 50-160/177	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29696	96539025	NBE 40-250/255	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29697	96125312	NBE 65-125/137	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29698	96539008	NBE 50-200/210	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29699	96539005	NBE 50-125/144	The Grundfos NBE are Variable Speed Endsuction Pumps	Grundfos
PUM29700	96627241	NK 80-200/222	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29701	96595473	NK 80-315/334	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29702	96593814	NK 50-250/263	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29703	96594713	NK 50-125/144	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29704	96595202	NK 65-315/320	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29705	96593351	NK 40-125/142	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29706	96594318	NK 80-250/270	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29707	96626975	NK 40-200/219	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29708	95107192	NK 150-400/431	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29709	95107133	NK 50-315/344	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29710	96595410	NK 80-250/270 4P	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29711	95107547	NK 150-400/438	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29712	95107476	NK 32-250/262	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29713	96593431	NK 40-160/177	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29714	96593143	NK 32-200.1/207	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29715	96595778	NK 150-200/224	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29716	96593703	NK 50-160/177	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29717	96593757	NK 50-200/210	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29718	96593959	NK 65-160/177	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29719	96592934	NK 32-160.1/177	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29720	96627039	NK 50-160/177 P	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29721	96594022	NK 65-200/217	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29722	96593766	NK 50-200/219 2P	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29723	96626825	NK 65-200/219 2P	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29724	96594832	NK 50-200/219	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29725	96626764	NK 40-250/260	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29726	96595105	NK 65-200/219	The Grundfos NK are Long Coupled End Suction Pumps	Grundfos
PUM29727	96601059	NKE 65-315/320	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29728	96600406	NKE 32-200/219	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29729	96600441	NKE 40-125/142	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29730	96600877	NKE 50-125/144 4P	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29731	96632050	NKE 40-200/219 4P	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29732	96600821	NKE 40-160/177	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29733	96600438	NKE 40-125/139	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29734	96600683	NKE 65-160/157	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29735	96600611	NKE 50-200/198	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29736	95108551	NKE 32-250/262 4P	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29737	96600973	NKE 65-160/149	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29738	96601011	NKE 65-200/205	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29739	96600287	NKE 32-160.1/169	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29740	96601126	NKE 80-250/270	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29741	96600369	NKE 32-200.1/207	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29742	96601289	NKE 150-200/224	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29743	96600478	NKE 40-160/177 2P	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29744	96600981	NKE 65-160/165	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29745	96632116	NKE 150-200/210-160	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29746	96600522	NKE 40-250/245 4P	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29747	96600624	NKE 50-200/210	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29748	96600691	NKE 65-160/173	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29749	96600600	NKE 50-160/177	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29750	96600530	NKE 40-250/255	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29751	96600906	NKE 50-160/175	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29752	96600310	NKE 32-160.1/177	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29753	96601014	NKE 65-200/219	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29754	96600699	NKE 65-160/177	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29755	96600930	NKE 50-200/210 4P	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29756	96601281	NKE 150-200/220	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29757	96632064	NKE 50-160/177 4P	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29758	96600627	NKE 50-200/219	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos

Aca Code	Product Code	Product Name	Short Description	Manufacturer
PUM29759	96600965	NKE 65-125/144	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29760	96600994	NKE 65-160/177 4P	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29761	96600659	NKE 65-125/137	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29762	96600592	NKE 50-160/167	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29763	96600562	NKE 50-125/144	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos
PUM29764	96600933	NKE 50-200/219 4P	The Grundfos NKE are Variable Speed Long Coupled End Suction Pumps	Grundfos

”.

22. Part 27 of Schedule 2 to the Principal Order is amended by inserting the following:

“

Aca Code	Product Code	Product Name	Short Description	Manufacturer
FAN24811	2.8.430.37	LMT-M-900	Axial flow fan	Removex AB

”.

23. Part 28 of Schedule 2 to the Principal Order is amended by inserting the following:

“

Aca Code	Product Code	Product Name	Short Description	Manufacturer
EVA27474	P60	Prius	A 5 door 1.8l hybrid vehicle.	Toyota
EVA29098	CV.2	CV.2	2 SEAT ELECTRIC CAR	nov company limited
EVA29260	XFD-6000ZK	XFD-6000ZK	2 SEAT ELECTRIC CAR	jinan flybo motor co.,ltd

”.

24. Part 3 of Schedule 2 to the Principal Order is amended by deleting the following:

“

Aca Code	Product Code	Product Name	Short Description	Manufacturer
LIG9328	GEWHPHS2-65K	Tetra® Power White	Tetra® Power White LED Strip, 6500K, 2 LEDs/ft. (~7 LEDs/m)	GE Lumination
LIG9329	GEWHXHS2-65K	Tetra® Power White XL	Tetra® Power White XL LED Strip, 6500K, 2 LEDs/ft. (~7 LEDs/m)	GE Lumination
LIG9494	HIPD400HPI	HIP HIPD400HPI	Sealed IP65 high bay luminaire with metal halide lamp	Tamlite Lighting

”.

25. Part 6 of Schedule 2 to the Principal Order is amended by deleting the following:

“

Aca Code	Product Code	Product Name	Short Description	Manufacturer
ESE24767	DL160 G6	DL160 G6	DL 160 G6 2 Intel X55xx processor, 144 GB DDR3 Memory, Rack server	Hewlett Packard
ESE24768	DL165 G6	DL165 G6	DL 165 G6 2 AMD 24xx processor, 64 GB DDR2 Memory, Rack server	Hewlett Packard

Aca Code	Product Code	Product Name	Short Description	Manufacturer
ESE24769	DL180 G6	DL180 G6	DL 180 G6 2 Intel X55xx processor, 96 GB DDR3 Memory, Rack server	Hewlett Packard
ESE24770	DL320 G6	DL320 G6	DL 320 G6 Intel X55xx processor, 72 GB DDR3 Memory, Rack server	Hewlett Packard
ESE24771	DL360 G6	DL360 G6	DL 320 G6 2 Intel X55xx processor, 144 GB DDR3 Memory, Rack server	Hewlett Packard
ESE24773	DL370 G6	DL370 G6	DL 370 G6 2 Intel X55xx processor, 144 GB DDR3 Memory, Rack server	Hewlett Packard
ESE24775	DL380 G6	DL380 G6	DL 380 G6 2 Intel 55xx processor, 144 GB DDR3 Memory, Rack server	Hewlett Packard
ESE24776	DL385 G6	DL385 G6	DL 385 G6 2 AMD 24xx processor, 128 GB DDR2 Memory, Rack server	Hewlett Packard
ESE24777	DL585 G6	DL585 G6	DL 585 G6 2 AMD 84xx processor, 256 GB DDR2 Memory, SSD, Rack server	Hewlett Packard
ESE24778	DL785 G6	DL785 G6	DL 785 G6 8 AMD 84xx processors Rack Server	Hewlett Packard
ESE24779	ML150 G6	ML150 G6	2 Intel X55xx processor, 48 GB DDR3 Memory, Tower server	Hewlett Packard
ESE24780	ML330 G6	ML330 G6	ML 330 G6 2 Intel X55xx processor, 144 GB DDR3 Memory, Tower server	Hewlett Packard
ESE24781	ML350 G6	ML350 G6	ML 350 G6 2 Intel X55xx processor, 144 GB DDR3 Memory, Tower server	Hewlett Packard

Aca Code	Product Code	Product Name	Short Description	Manufacturer
ESE24782	ML370 G6	ML370 G6	ML 370 G6 2 Intel X55xx processor, 144 GB DDR3 Memory, Tower server	Hewlett Packard
ESE24783	487912-B21 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT ML150G6	Hewlett Packard 2 Intel X55xx processor 48 GB DDR3 Memory, Tower server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24784	491531-B21/491532-B21 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT DL160 G6	Hewlett Packard 2 Intel X55xx processor, 144 GB DDR3 Memory, Rack Server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24785	VS4-ENT/VI3-ENT DL165 G6	VS4-ENT/VI3-ENT DL165 G6	Hewlett Packard 2 AMD 24xx processor, 64 GB DDR2 Memory, Rack server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24786	507168-B21 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT DL180 G6	Hewlett Packard 2 Intel X55xx processor 96 GB DDR3 Memory, Rack server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24787	505768-B21 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT DL320 G6	Hewlett Packard Intel X55xx processor 72 GB DDR3 Memory, Rack server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited

Aca Code	Product Code	Product Name	Short Description	Manufacturer
ESE24789	483874-B21 483879-B21 VS4- ENT/VI3-ENT	VS4-ENT/VI3- ENT DL370 G6	Hewlett Packard 2 Intel X55xx processor, 144 GB DDR3 Memory, Rack Server and VS4- ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24790	483880-B21 483879-B21 VS4- ENT/VI3-ENT	VS4-ENT/VI3- EN ML370G6	Hewlett Packard 2 Intel X55xx processor, 144 GB DDR3 Memory, Tower Server and VS4- ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24791	VS4-ENT/VI3- ENT DL385 G6	VS4-ENT/VI3- ENT DL385 G6	Hewlett Packard 2 AMD 24xx processor, 128 GB DDR2 Memory, Rack server and VS4- ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24793	507865-B21 VS4- ENT/VI3-ENT	VS4-ENT/VI3- ENT BL280c G6	Hewlett Packard 2 Intel X55xx processor, 96 GB DDR3 Memory, Blade Server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24794	483444-B21 483448-B21 483443-B21 483447-B21 VS4- ENT/VI3-ENT	VS4-ENT/VI3- ENT ML350 G6	Hewlett Packard 2 Intel X55xx processor, 144 GB DDR3 Memory, Tower Server and VS4- ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24799	VS4-ENT/VI3- ENT DL585 G6	VS4-ENT/VI3- ENT DL585 G6	Hewlett Packard 2 AMD 84xx processor, 256 GB DDR2 Memory, SSD, rack server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited

Aca Code	Product Code	Product Name	Short Description	Manufacturer
ESE24801	VS4-ENT/VI3-ENT DL785 G6	VS4-ENT/VI3-ENT DL785 G6	Hewlett Packard 8 AMD 84xx processors, Rack server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24802	VS4-ENT/VI3-ENT ML330 G6	VS4-ENT/VI3-ENT ML330 G6	Hewlett Packard 2 Intel X55xx processor, 144 GB DDR3 Memory Tower Server and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited
ESE24805	R300 L:239.9 M:292.9 H:341 VS4-ENT/VI3-ENT	VS4-ENT/VI3-ENT PowerEdge R300	Dell Inc. PowerEdge R300 and VS4-ENT/PL or VI3 equivalent (incorporating DPM, VMotion and DRS)	VMware International Limited

”.

The Minister for Finance approves the making of the foregoing Order.



GIVEN under the Official Seal of the Minister for Finance,
17 December 2009.

BRIAN LENIHAN,
Minister for Finance.



GIVEN under my Official Seal,
17 December 2009.

EAMON RYAN,
Minister for Communications, Energy Natural Resources.

EXPLANATORY NOTE

(This note is not part of the Instrument and does not purport to be a legal interpretation)

The effect of this Order is to update, in accordance with the provisions of section 285A of the Taxes Consolidation Act 1997 (inserted by section 46 of the Finance Act 2008), those energy efficient products whose capital cost will be eligible for accelerated capital allowances and to update the energy efficiency criteria used to determine eligibility for inclusion on those product lists.

The Accelerated Capital Allowance Scheme will involve quarterly updates to those product lists.

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